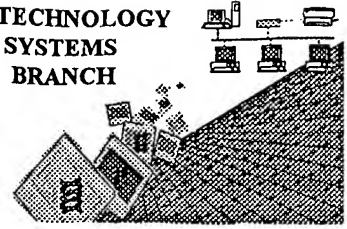# RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _/o/ 647,/// _

Source: _OIPE_

Date Processed by STIC: _9/3/2003_

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
http://www.uspto.gov/web/offices/pac/checker

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm> , **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. **Hand Carry directly to:**
   U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
   Or
   U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. **Federal Express, United Parcel Service, or other delivery service to:** U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 04/24/2003

OIPE

RAW SEQUENCE LISTING   DATE: 09/03/2003
PATENT APPLICATION: US/10/647,111   TIME: 10:38:36

Input Set : A:\pto.yf.txt
Output Set: N:\CRF4\09032003\J647111.raw

```
   2 <110> APPLICANT: BTG International Ltd
   3        Iggo, Richard
   4        Malerba, Maddalena
W--> 5 <120> TITLE OF INVENTION: ANTI-NEOPLASTIC VIRUSES
W--> 6 <130> FILE REFERENCE: 144240WO
W--> 7 <140> CURRENT APPLICATION NUMBER: GB  10/647,111 ← replace
                                                          with  Does Not Comply
C--> 8 <141> CURRENT FILING DATE: 2003-08-25              Corrected Diskette Needed
       <160> ← insert this mandatory numeric identifier
                          and response
```

ERRORED SEQUENCES

```
  10 <213> ORGANISM: Parvovirus H1\MVM (phH1)
E--> 11 <212> TYPE: Type : DNA                          see p.2 for explanation
  12 <211> LENGTH: Length : 5121
W--> 13 SequenceName : Parvovirus H1\MVM (phH1) ←
W--> 14 SequenceDescription : Parvovirus H1 with promoter P4 and left hairpin from MVM
W--> 15 (phH1-
W--> 0 <160> NUMBER OF SEQ ID NOS:
W--> 16 <210> SEQ ID NO:
W--> 16 <400> SEQUENCE:
  17 aaactccctg aaccgcttat catttttaga actgaccaac catgttcacg taagtgacgt    60
  18 gatgacgcgc gctgcgcgcg cgccttcgga cgtcacacgt cacttacgtt tcacatggtt   120
  19 ggtcagttct aaaaatgata agcggttcag ggagtttaaa ccaaggcgcg aaaaggaagt   180
  20 gggcgtggtt taaagtatat aagcaactac tgaagtcagt tacttatctt ttctttcatt   240
  21 ctgtgagtcg agacgcacag aaagagagta accaactaac catggctgga aatgcttact   300
  22 ctgatgaagt tttgggagca accaactggt taaaggaaaa aagtaaccag gaagtgttct   360
  23 catttgtttt taaaaatgaa aatgttcaac tgaatggaaa agatatcgga tggaatagtt   420
  24 acaaaaaaga gctgcaggag gacgagctga aatctttaca acgaggagcg gaaactactt   480
  25 gggaccaaag cgaggacatg gaatgggaaa ccacagtgga tgaaatgacc aaaaagcaag   540
  26 tattcatttt tgattctttg gttaaaaaat gtttatttga agtgcttaac acaaagaata   600
  27 tatttcctgg tgatgttaat tggtttgtgc aacatgaatg gggaaaagac caaggctggc   660
  28 actgccatgt actaattgga ggaaaggact ttagtcaagc tcaagggaaa tggtggagaa   720
  29 ggcaactaaa tgtttactgg agcagatggt tggtaacagc ctgtaatgtg caactaacac   780
  30 cagctgaaag aattaaacta agagaaatag cagaagacaa tgagtgggtt actctactta   840
  31 cttataagca taagcaaacc aaaaaagact ataccaagtg tgttcttttt ggaaacatga   900
  32 ttgcttacta tttttttaact aaaaagaaaa taagcactag tccaccaaga gacggaggct   960
  33 attttcttag cagtgactct ggctggaaaa ctaactttt aaaagaaggc gagcgccatc  1020
  34 tagtgagcaa actgtatact gatgagatga aaccagaaac ggtcgagacc acagtgacca  1080
  35 ctgcacagga agctaagcgc ggcagaattc aaactagaga ggaggtctcg attaaaacca  1140
  36 cactcaaaga gttggtacat aaaagagtaa cctcaccaga agactggatg atgatgcagc  1200
  37 cagacagtta cattgaaatg atggctcaac caggtggaga aaacttgctt aaaaatacac  1260
  38 tagagatctg tacactgact ctagcaagaa ccaaaacagc ctttgacttg attctggaaa  1320
  39 aagctgaaac cagcaaacta gccaacttttt ccatggctag caccagaacc tgtagaatct  1380
```

Insert this header. No response.

<210> 1. move under <212>

<213> Parvovirus H1\MVM (phH1)   ⟶ do not insert alphabetical headings in new Sequence Ruler format

<212> ~~Type~~ : DNA

<211> ~~Length~~ : 5121   move this under <210>

~~SequenceName~~ : Parvovirus H1\MVM (phH1)   — delete

<220>
<223> ~~SequenceDescription~~ : Parvovirus H1 with promoter P4 and left hairpin from MVM (phH1-

insert
<223>
before explanation of organism

<400> 1 ← insert

aaactccctg aaccgcttat cattttaga actgaccaac catgttcacg taagtgacgt   60

(partial listing of nucleotides)

e.g.   <210> 1
        <211> 5121
        <212> DNA
        <213> Parvovirus H1\MVM (phH1)

        <400> 1

see sample Sequence Listing (attached) for valid format

Suggestion: see Sequence Rules

<110>   Smith, John; Smithgene Inc.

<120>   Example of a Sequence Listing

<130>   01-00001

<140>   PCT/EP98/00001
<141>   1998-12-31

<150>   US 08/999,999
<151>   1997-10-15

<160>   (

<170>   PatentIn version 2.0

<210>   1
<211>   389
<212>   DNA
<213>   Paramecium sp.

<220>
<221>   CDS
<222>   (279)...(389)

<300>
<301>   Doe, Richard
<302>   Isolation and Characterization of a Gene Encoding a
         Protease from Paramecium sp.
<303>   Journal of Genes
<304>   1
<305>   4
<306>   1-7
<307>   1988-06-31
<308>   123456
<309>   1988-06-31

<400>   1
agctgtagtc   attcctgtgt   cctcttctct   ctgggcttct   caccctgcta   atcagatctc   60

aggggagagtg tcttgaccct   cctctgcctt   tgcagcttca   caggcaggcà ggcaggcagc   120

tgatgtggca   attgctggca   gtgccacagg   cctttcagcc   aggcttaggg   tgggttccgc   180

cgcggcgcgg   cggcccctct   cgcgctcctc   tcgcgcctct   ctctcgctct   cctctcgctc   240

Appendix 3, page 2

ggacctgatt	aggtgagcag	gaggagggg	cagttagc		atg	gtt	tca	atg	ttc	agc	296
					Met	Val	Ser	Met	Phe	Ser	
					1					5	

ttg	tct	ttc	aaa	tgg	cct	gga	ttt	tgt	ttg	ttt	gtt	tgt	ttg	ttc	caa	344
Leu	Ser	Phe	Lys	Trp	Pro	Gly	Phe	Cys	Leu	Phe	Val	Cys	Leu	Phe	Gln	
			10					15					20			

tgt	ccc	aaa	gtc	ctc	ccc	tgt	cac	tca	tca	ctg	cag	ccg	aat	ctt		389
Cys	Pro	Lys	Val	Leu	Pro	Cys	His	Ser	Ser	Leu	Gln	Pro	Asn	Leu		
		25					30					35				

```
<210>        2
<211>        37
<212>        PRT
<213>        Paramecium sp.

<400>        2
```

| Met | Val | Ser | Met | Phe | Ser | Leu | Ser | Phe | Lys | Trp | Pro | Gly | Phe | Cys | Leu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| Phe | Val | Cys | Leu | Phe | Gln | Cys | Pro | Lys | Val | Leu | Pro | Cys | His | Ser | Ser |
| | | 20 | | | | | 25 | | | | | 30 | | | |

| Leu | Gln | Pro | Asn | Leu |
| | | 35 | | |

```
<210>        3
<211>        11
<212>        PRT
<213>        Artificial Sequence

<220>
<223>        Designed peptide based on size and polarity to act as a
             linker between the alpha and beta chains of Protein XYZ.

<400>        3
```

| Met | Val | Asn | Leu | Glu | Pro | Met | His | Thr | Glu | Ile |
| 1 | | | | 5 | | | | | 10 | |

```
<210>        4
<400>        4
000
```

[Annex VIII follows]

identifiers and their accompanying information as shown in the following table. The numeric identifier shall be used only in the "Sequence Listing." The order and presentation of the items of information in the "Sequence Listing" shall conform to the arrangement given below. Each item of information shall begin on a new line and shall begin with the numeric identifier enclosed in angle brackets as shown. The submission of those items of information designated with an "M" is mandatory. The submission of those items of information designated with an "O" is optional. Numeric identifiers <110> through <170> shall only be set forth at the beginning of the "Sequence Listing." The following table illustrates the numeric identifiers.

Numeric Identifier	Definition	Comments and Format	Mandatory (M) or Optional (O)
<110>	Applicant	Preferably max. of 10 names; one name per line; preferable format: Surname, Other Names and/or Initials	M
<120>	Title of Invention		M
<130>	File Reference	Personal file reference	M, when filed prior to assignment of appl. number
<140>	Current Application Number	Specify as: US 07/999,999 or PCT/US96/99999	M, if available
<141>	Current Filing Date	Specify as: yyyy-mm-dd	M, if available
<150>	Prior Application Number	Specify as: US 07/999,999 or PCT/US96/99999	M, if applicable include priority documents under 35 USC 119 and 120
<151>	Prior Application Filing Date	Specify as: yyyy-mm-dd	M, if applicable
<160>	Number of SEQ ID NOs	Count includes total number of SEQ ID NOs	M
<170>	Software	Name of software used to create the Sequence Listing	O
<210>	SEQ ID NO:#:	Response shall be an integer representing the SEQ ID NO shown	M
<211>	Length	Respond with an integer expressing the number of bases or amino acid residues	M

<212>	Type	Whether presented sequence molecule is DNA, RNA, or PRT (protein). If a nucleotide sequence contains both DNA and RNA fragments, the type shall be "DNA." In addition, the combined DNA/RNA molecule shall be further described in the <220> to <223> feature section.	M
<213>	Organism	Scientific name, i.e. Genus/species, Unknown or Artificial Sequence. In addition, the "Unknown" or "Artificial Sequence" organisms shall be further described in the <220> to <223> feature section.	M
<220>	Feature	Leave blank after <220>. <221-223> provide for a description of points of biological significance in the sequence.	M, under the following conditions: if "n," "Xaa," or a modified or unusual L-amino acid or modified base was used in a sequence; if ORGANISM is "Artificial Sequence" or "Unknown"; if molecule is combined DNA/RNA.
<221>	Name/Key	Provide appropriate identifier for feature, preferably from WIPO Standard ST.25 (1998), Appendix 2, Tables 5 and 6	M, under the following conditions: if "n," "Xaa," or a modified or unusual L-amino acid or modified base was used in a sequence
<222>	Location	Specify location within sequence; where appropriate state number of first and last bases/amino acids	M, under the following conditions: if "n," "Xaa," or a modified or unusual L-amino acid or modified

<223>	Other Information	Other relevant information; four lines maximum	M, under the following conditions: if "n," "Xaa," or a modified or unusual L-amino acid or modified base was used in a sequence; if ORGANISM is "Artificial Sequence" or "Unknown"; if molecule is combined DNA/RNA.
<300>	Publication Information	Leave blank after <300>	O
<301>	Authors	Preferably max of ten named authors of publication; specify one name per line; preferable format: Surname, Other Names and/or Initials	O
<302>	Title		O
<303>	Journal		O
<304>	Volume		O
<305>	Issue		O
<306>	Pages		O
<307>	Date	Journal date on which data published; specify as yyyy-mm-dd, MM-yyyy or Season-yyyy	O
<300>	Database Accession Number	Accession number assigned by database including database name	O
<309>	Database Entry Date	Date of entry in database; specify as yyyy-mm-dd or MM-yyyy	O
<310>	Patent Document Number	Document number; for patent-type citations only. Specify as, for example, US 07/999,999	O

<311>	Patent Filing Date	Document filing date, for patent-type citations only; specify as yyyy-mm-dd	O
<312>	Publication Date	Document publication date, for patent-type citations only; specify as yyyy-mm-dd	O
<313>	Relevant Residues	FROM (position) TO (position)	O
<400>	Sequence	SEQ ID NO should follow the numeric identifier and should appear on the line preceding the actual sequence	M

5. Section 1.024 is revised to read as follows:

1.024 Form and format for nucleotide and/or amino acid sequence submissions in computer readable form.

(a) The computer readable form required by 1.021(c) shall meet the following specifications:

(1) The computer readable form shall contain a single "Sequence Listing" as either a diskette, series of diskettes, or other permissible media outlined in paragraph (c) of this section.

(2) The "Sequence Listing" in paragraph (a) (1) of this section shall be submitted in American Standard Code for Information Interchange (ASCII) text. No other formats shall be allowed.

(3) The computer readable form may be created by any means, such as word processors, nucleotide/amino acid sequence editors or other custom computer programs; however, it shall conform to all specifications detailed in this section.

(4) File compression is acceptable when using diskette media, so long as the compressed file is in a self-extracting format that will decompress on one of the systems described in paragraph (b) of this section.

(5) Page numbering shall not appear within the computer readable form version of the "Sequence Listing" file.

(6) All computer readable forms shall have a label permanently affixed thereto on which has been hand-printed or typed: the name of the applicant, the title of the invention, the date on which the data were recorded on the computer readable form, the operating system used, a reference number, and an application serial number and filing date, if known.

(b) Computer readable form submissions must meet these format requirements:

(1) Computer: IBM PC/XT/AT, or compatibles, or Apple Macintosh;

(2) Operating System: MS-DOS, Unix or Macintosh;